

Store at  
-20°C

# Human IL-17A/F Heterodimer Recombinant Protein

#64210

25 µg

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www.cellsignal.com/support**Orders:** 877-616-2355 (U.S.)  
orders@cellsignal.com**Entrez-Gene ID** #3605, #112744  
**UniProt ID** #Q16552, #Q96PD4

## For Research Use Only. Not For Use In Diagnostic Procedures.

**Background:** IL-17A/F is a cysteine-linked heterodimer of IL-17A and IL-17F (1,2). IL-17A/F is produced by Th<sub>17</sub> cells and γδ T cells (1,2). IL-17A/F stimulates production of pro-inflammatory cytokines and neutrophil chemoattractants, thereby functioning as a bridge between adaptive and innate immunity (1-3). Some research studies suggest that IL-17A/F may be involved in mucosal immunity against some bacterial infections and has a putative role in some autoimmune disorders (3,4). The receptor for IL-17A/F consists of a heterodimer of IL-17RA and IL-17RC and signaling through this receptor leads to activation of the Erk1/2 and NF-κB pathways (1).

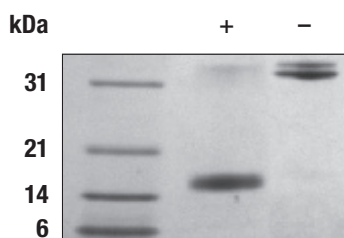
**Molecular Weight:** 30.7 kDa

**Endotoxin:** Endotoxin levels are ≤ 1 EU / 1 µg hIL-17A/F.

**Purity:** ≥ 95% purity was determined by SDS-PAGE.

**Source/Purification:** Recombinant human IL-17A/F was expressed in *E. coli* and is supplied in a lyophilized form.

**Bioactivity:** The bioactivity of recombinant human IL-17A/F was determined by measuring the production of IL-6 from mouse 3T3 cells. The ED<sub>50</sub> of each lot is ≤ 10 pg/mL.



The purity of Human IL-17A/F Heterodimer Recombinant Protein was determined by SDS-PAGE of 1 µg reduced (+) and non-reduced (-) recombinant hIL-17A/F and staining with Coomassie Blue. hIL-17A/F is a heterodimer with a predicted total molecular weight (MW) of 30.7 kDa with the IL-17A monomer equaling 15.7 kDa and the IL-17F monomer equaling 15.0 kDa.

**Storage:** Human IL-17A/F Heterodimer Recombinant Protein is supplied as lyophilized material that is very stable at -20°C. It is recommended to reconstitute with sterile water at a concentration of 0.1 mg/mL which can be further diluted in aqueous solutions as needed. Addition of a carrier protein (0.1% HSA or BSA) is recommended for long-term storage.

### Background References:

- (1) Iwakura, Y. et al. (2011) *Immunity* 34, 149-62.
- (2) Chang, S.H. and Dong, C. (2007) *Cell Res* 17, 435-40.
- (3) Henry, T. et al. (2010) *J Immunol* 184, 3755-67.
- (4) Hu, Y. et al. (2010) *J Immunol* 184, 4307-16.

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**Applications:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry CHIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA—Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster MK—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.